## CLAIMS

- 1. A maintenance/recovery device for a liquid
  discharge device, comprising:
- a cap member covering a surface of a nozzle of a liquid discharging head, the liquid discharging head discharging a droplet of a recording liquid from the nozzle;

a resilient contact member provided in the cap member to come in contact with the surface of the nozzle;

a recess-forming member providing in the cap member to form a recess for receiving the recording liquid attracted from the nozzle,

wherein the contact member and the recess-forming member are integrally formed by molding, the recess-forming member is made of a resin material containing a water repellent agent, and the recess-forming member is provided to have at least two slopes being inclined toward an outlet at a bottom of the recess.

- 2. The maintenance/recovery device according to claim 1 wherein a content of the water repellent agent in the resin material which forms the recess-forming member does not exceed 10 weight percent.
  - 3. The maintenance/recovery device according to

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claim 1 wherein the recess of the recess-forming member is provided with corners which are curved.

- 4. The maintenance/recovery device according to

  claim 1 wherein a sum of an inclination angle of the slopes of
  the recess-forming member to a horizontal surface and a

  contact angle between the slopes and the recording liquid is

  70 degrees or more.
- 5. The maintenance/recovery device according to claim 4 wherein the sum of the inclination angle and the contact angle is 90 degrees or more.
  - 6. An image forming device comprising:
- a liquid discharge head provided as a recording head which discharges a droplet of a recording liquid from a nozzle; and
  - a maintenance/recovery device provided to maintain and recover performance of the liquid discharge head,
- 20 the maintenance/recovery device comprising:
  - a cap member covering a surface of the nozzle of the liquid discharging head;
  - a resilient contact member provided in the cap member to come in contact with the surface of the nozzle;
- 25 a recess-forming member providing in the cap member

to form a recess for receiving the recording liquid attracted from the nozzle,

wherein the contact member and the recess-forming member are integrally formed by molding, the recess-forming member is made of a resin material containing a water repellent agent, and the recess-forming member is provided to have at least two slopes being inclined toward an outlet at a bottom of the recess.

- 7. The image forming device according to claim 6
  wherein the recording liquid contains a water, a pigment of 6
  weight percent or more, a polymer component, and a watersoluble organic solvent, and the recording liquid has a
  surface tension of 40 mN/m or less at 25 degrees C and has a
  viscosity that is above 5 cp and below 20 cp at 25 degrees C.
  - 8. The image forming device according to claim 6 wherein a content of the water repellent agent in the resin material which forms the recess-forming member does not exceed 10 weight percent.
  - 9. The image forming device according to claim 6 wherein the recess of the recess-forming member is provided with corners which are curved.

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10. The image forming device according to claim 6 wherein a sum of an inclination angle of the slopes of the recess-forming member to a horizontal surface and a contact angle between the slopes and the recording liquid is 70 degrees or more.